Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-06-02** **Date: 09-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.
Agency	:	Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21
Customer Reference	:	EE/DD/WO/246/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-18
Sample ID No	:	2018-03-06-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	386	386	7.7	92.3	90-100
3	10 mm	2739	3125	62.5	37.5	25-55
4	4.75 mm	1678	4803	96.1	3.9	0-10
5	Pan	197	5000	100	0	–

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಯಶವಂತಪುರ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-06-02** **Date: 09-03-18**

Sample ID No : 2018-03-06-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.56	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2018-03-06-02 **Date:** 10-03-18
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.
Agency	:	Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara. Bengaluru-21
Customer's Reference	:	EE/DD/WO/246/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-18
Sample ID No	:	2018-03-06-02 /05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.22	100.42	1.342	4443	98.9	22.3	20.7	25.9
2	Cover Slab-2	75.19	100.17	1.338	4439	96.2	21.7	20.2	25.2
3	Cover Slab-3	75.27	100.59	1.352	4449	100.1	22.5	20.9	26.2

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-17-06** **Date: 21/03/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.

Agency : Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21

Customer's Reference : EE/DD/WO/246/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-18

Sample ID No : 2018-03-17-06 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/03/2018	21/03/2018	150.22 X 150.21 X 150.20	22565	8.324	394.9	17.5	17.8
2	Drain Concrete	M20	14/03/2018	21/03/2018	150.24 X 150.21 X 150.18	22568	8.315	401.7	17.8	
3	Drain Concrete	M20	14/03/2018	21/03/2018	150.18 X 150.10 X 150.21	22542	8.268	408.0	18.1	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-17-06** **Date: 11/04/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.

Agency : Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21

Customer's Reference : EE/DD/WO/246/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-18

Sample ID No : 2018-03-17-06 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/03/2018	11/04/2018	150.17 X 150.21 X 150.23	22557	8.326	521.1	23.1	22.9
2	Drain Concrete	M20	14/03/2018	11/04/2018	150.22 X 150.18 X 150.20	22560	8.344	514.4	22.8	
3	Drain Concrete	M20	14/03/2018	11/04/2018	150.23 X 150.22 X 150.19	22568	8.312	512.3	22.7	

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ಕವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-17-06**

Date: 21/03/2018

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.

Agency : Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21

Customer's Reference : EE/DD/WO/246/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-18

Sample ID No : 2018-03-17-06 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/03/2018	21/03/2018	150.11 X 150.14 X 150.19	22538	8.314	396.7	17.6	17.6
2	Drain Concrete	M20	14/03/2018	21/03/2018	150.22 X 150.25 X 150.29	22571	8.389	401.8	17.8	
3	Drain Concrete	M20	14/03/2018	21/03/2018	150.19 X 150.21 X 150.22	22560	8.352	390.3	17.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-17-06** **Date: 11/04/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains at 7th cross in Santosh Nagara and other roads in Ward no.13 Shettyhalli Sub division.

Agency : Sri. Nischal .K Lakshman, No.3667, 5th cross, 'B' block, Gayatrinagara, Bengaluru-21

Customer's Reference : EE/DD/WO/246/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-18

Sample ID No : 2018-03-17-06 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/03/2018	11/04/2018	150.21 X 150.20 X 150.28	22562	8.378	505.4	22.4	22.9
2	Drain Concrete	M20	14/03/2018	11/04/2018	150.13 X 150.10 X 150.12	22535	8.243	516.0	22.9	
3	Drain Concrete	M20	14/03/2018	11/04/2018	150.21 X 150.25 X 150.22	22569	8.377	525.9	23.3	

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